

Model EPT1020-T series

OEM Pressure Transmitter
Stainless steel pressure sensor
For high temperature application

Materontek
Sensing and Internet of Things

Features

- ❑ Measuring ranges from 100mbar to 600bar
- ❑ Gauge pressure, Absolute pressure
- ❑ Accuracy:±0.5%FSO(Typ.)
- ❑ Calibrated and temperature compensated
- ❑ Stainless steel pressure sensor
- ❑ Medium temperature: 0 to 150°C
- ❑ Output 4...20mA,DC1...5V,DC0.5...4.5V,RS485,etc.



Application

- ❑ Hydraulic and pneumatic
- ❑ Machine building
- ❑ Steam and heat exchange
- ❑ Water treatment
- ❑ IoT pressure measurement

Technical data

Performance

Accuracy*	0.5%FS@25°C(Typ.)	*Linearity (best straight line) + Hysteresis + Repeatability
Medium Temperature	0 to 150°C, 0 to 200°C	
Compensated Temperature Range	-10 to 70°C	
Vibration	20 g RMS(20 to 2000Hz)	
Shock	100 g(10ms)	
Cycles	10x10 ⁵	
Long Term Stability	0.2 %FS	

Electrical @25°C

Output signal / Supply	2-wire	4...20mA / V _S = 12...30VDC
	3-wire	1...5VDC / V _S = 12...30VDC
	3-wire	0.5...4.5VDC / V _S = 5VDC
	2-wire	4...20mA+HART / V _S = 12... 30VDC
	4-wire	RS485 Modbus RTU / V _S = 12... 30VDC
Insulation Resistance	100 MΩ@100VDC	
EMC Test	IEC61000-6-2/IEC61000-6-3	
Reverse polarity protection	No damage – no function	

Physical Specifications

Housing	304 stainless steel
Diaphragm	316L stainless steel
Sealing	NBR or Viton O-ring
Oil Filling	Silicone oil
Protection	IP65
Weight	~250g(without cable)

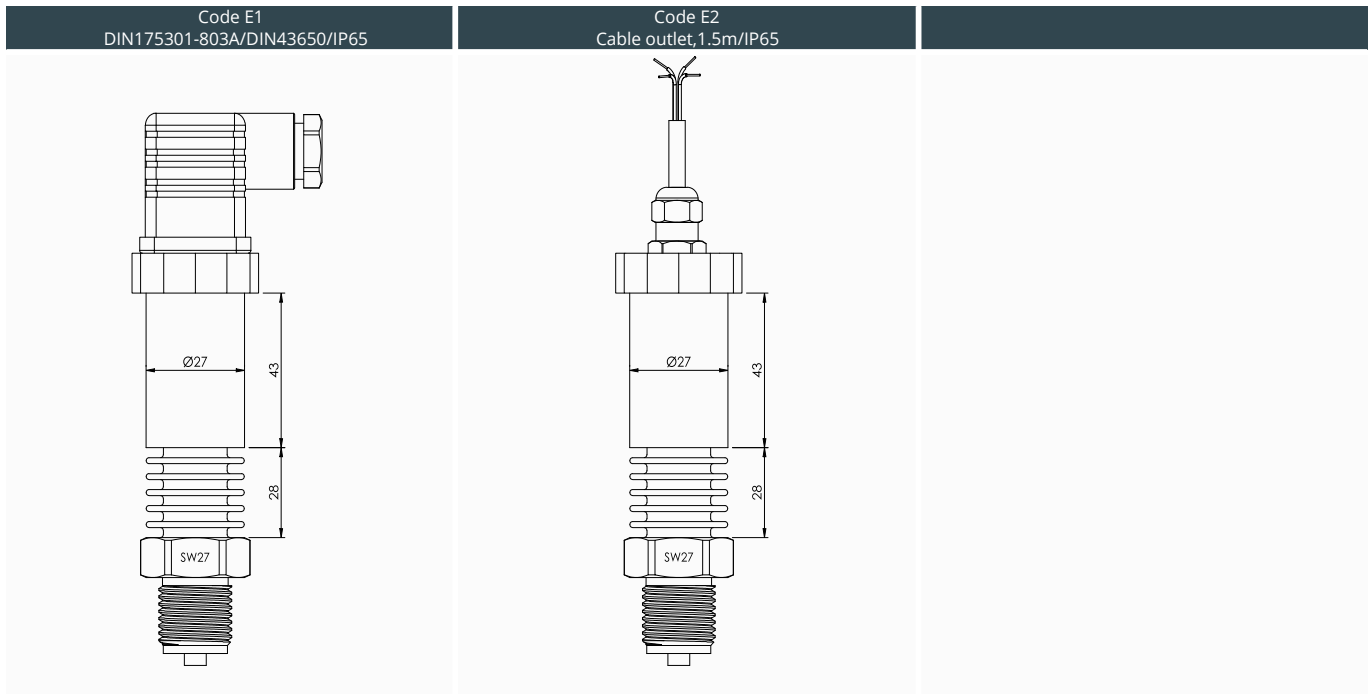
The listed specifications and dimensions are subject to change without prior notice

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Dimensions (All dimensions in mm)



Electrical connections

DIN175301 -803-A	4...20mA 2-wire	1...5VDC 3-wire	0.5...4.5VDC 3-wire	RS485 4-wire	Connector M12x1(4-pin)	4...20mA 2-wire	1...5VDC 3-wire	0.5...4.5VDC 3-wire	RS485 4-wire
+Vcc	1	1	1	1	+Vcc	1	1	1	1
OUT	2	3	3	-	OUT	3	4	4	-
GND	-	2	2	2	GND	-	3	3	3
RS485A	-	-	-	3	RS485A	-	-	-	2
RS485B	-	-	-	⊕	RS485B	-	-	-	4

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Standard pressure range

Code	Pressure [bar]	Gauge	Sealed gauge	Absolute
01	0...0.35	✓		✓
02	0...0.7	✓		✓
03	0...1	✓		✓
04	0...1.6	✓		✓
05	0...2.5	✓		✓
06	0...4	✓		✓
07	0...6	✓		✓
08	0...10	✓	✓	✓
09	0...16	✓	✓	✓
10	0...25	✓	✓	✓
11	0...40		✓	
12	0...60		✓	
13	0...100		✓	
14	0...160		✓	
15	0...250		✓	
16	0...400		✓	

Code	Pressure [bar]	Gauge	Sealed gauge	Absolute
17	0...600		✓	
18	-0.1...+0.1	✓		
19	-0.2...+0.2	✓		
20	-0.5...+0.5	✓		
21	-1...0	✓		
22	0...-1	✓		
23	-1...+1	✓		
24	-1...+1.6	✓		
25	-1...+2.5	✓		
26	-1...+4	✓		
27	-1...+6	✓		
28	-1...+9	✓		
29	-1...+10	✓		
30	-1...+16	✓		
31	-1...+25	✓		
32	0.8...2	✓		✓

Ordering code

Model	Range	Type	Output/Power supply	Pressure Port	Electrical Connection
EPT1020-T	code	G Gauge	42 4...20mA/12...30VDC	01 G¼ male	E1 DIN175301-803A/IP65
		A Absolute	15 DC 1...5V/12...30VDC	02 G½ male	E2 Cable outlet,1.5m/IP65
			05 DC 0...5V/12...30VDC	03 ¼NPT male	
			45 DC 0.5...4.5V/5VDC	04 ½NPT male	
			10 DC 0...10V/15...30VDC	05 PT¼ male	
			25 DC 0...2.5V/5VDC	06 PT½ male	
			R4 RS485 Modbus RTU/12... 30VDC	07 M20x1.5 male	
			HR 4...20mA+HART /12... 30VDC	99 Custom	

Accuracy	Medium Temperature	Label
A1 0.25%FS	T1 0 to 150°C	S Standard
A2 0.5%FS(Standard)	T2 0 to 200°C	N Neutral packing
A3 1.0%FS		C Custom label